COUNTY BOROUGH OF ROCHDALE.

MEDICAL OFFICER OF HEALTH'S DEPARTMENT.

With the
Medical Officer's Compliments.

ROCHDALE:
E. WRIGLEY & SONS LIMITED, PRINTERS, ACKER STREET.

1898.

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COUNTY BOROUGH OF ROCHDALE.

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH,

FOR THE

YEAR ENDED DECEMBER 31ST, 1897.

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1898.

HEALTH COMMITTEE.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

FOR THE YEAR 1897.

Mr. Chairman and Gentlemen,

I have great pleasure in presenting to you my Nineteenth Annual Report on the Health and Mortality of your Borough, together with a Statement of the Sanitary Work accomplished during the year ending December 31st, 1897. I shall also bring under your notice a few suggestions for your future consideration, which, if carried out, will, I think, tend to improve the sanitary condition and, therefore, the health of your Borough.

Estimated Population

The population, estimated to the middle of the year, was 73,605—males 34,318, females 39,287. This estimate I have arrived at by adding the natural increase of births over deaths to the estimated population for the preceding year. This is the method I have followed for many years, and found to be nearer the truth than any of the other means usually adopted. If I add the number of inmates of the Workhouse who formerly resided within the Borough, I find the population would be 74,115.

Births

The Births registered during the year number 1884; males 960, females 924, an increase on the preceding year of 30 and equal to an annual birth-rate of 25·6. This increase though not so large as the preceding year, still is satisfactory, as showing that the gradual but steady diminution of the birth-rate from the year 1876, when it was 35·4 to the year 1894 when it was 23·7, reached its minimum in that year and is now steadily increasing again. The birth-rate, according to the Registrar-General's Return for the whole of England and Wales, was 29·7 per 1,000 of the population which is equal to the rate in 1896, and lower than that in any other year on record, excepting 1894; the thirty-three largest towns 30·7; and the sixty-seven next largest 31·5. Of the different districts of the Borough, Castleton Further had the highest birth-rate, viz: 28·4, Spotland Further the lowest 19·0 (see Table I.)

Deaths

The total number of Deaths registered during the year was 1232—males 597, females 635—equal to an annual death-rate of 16·7 per 1000 of the estimated population. If to this you add the death-rate in Dearnley Workhouse of inmates who formerly resided in Rochdale, you will find the death-rate to be 17·8 per 1000 of the estimated population. Wardleworth has the highest death-rate, viz.:—18·9; and Spotland Further the lowest 13·2 (see Table I.)

The following table gives the annual death-rate of the different districts as below; it has been compiled from the Registrar-General's Reports:—

England and Wales......	Population	31	millions...	17·4
,, Urban Districts	,,	21	,, ...	18·2
,, Rural ,,	,,	10	,, ...	15·8
Thirty-three great towns...	,,	11	,, ...	19·1
Sixty-seven other large towns	,,	3½	,, ...	17·2
Lancashire....................	,,	4¼	,, ...	20·4
Rochdale				**17·8**

Infantile Mortality

The number of deaths amongst infants under one year of age was 263, or 20 less than the preceding year. The infantile mortality measured by the proportion of deaths under one year to every 1000 births registered during the same time was 139; the rate for England and Wales was 156; the thirty-three great towns 177; the sixty-seven other large towns 169; and the remainder of the country 138.

Mortality at Different Ages

The number of deaths of children under Five years of age was 435 or 52 less than the preceding year, and about one-third of the total number of deaths. The percentage of deaths at all ages is 35 and 2 per cent more than the mean average for the ten preceding years, 1887-96, but 4½ per cent less than the mean average for the ten years, 1877-86. The increase at this age is mainly due to an excess of deaths from Measles, and its usual sequelæ.

The total number of deaths of people over the age of sixty was 323, being 32 less than the preceding year and equal to a death-rate of 65·2 per thousand of the population estimated to be living at that age in the Borough. The same rate for England and Wales was 66·2; the thirty-three great towns 71·9; the sixty-seven other large towns 66·4; and the remainder of the country 64·3.

Deaths from Zymotic Diseases

*

The seven principal Zymotic diseases caused 133 deaths being 20 less than the previous year, and equal to an annual death-rate of 1·80 per thousand of the estimated population. The same rate for England and Wales was 2·15; the thirty-three great towns, 2·87; the sixty-seven other large towns, 2·41; and the remainder of the country which is chiefly rural, 1·62. The highest rate from these causes was in Castleton Further, where it was 2·27; and the lowest in Spotland Further, 1·22. Wuerdle and Wardle, a district in the town in which Zymotic disease was more prevalent than any other, has now the same death-rate from this cause as that which prevails in the whole Borough, a fact which I have no doubt was chiefly due to the improved drainage which has been carried out recently in the district.

The following table shows the rates in the surrounding towns under the several headings as below, for the purpose of comparison. They are about the same size and like Rochdale are employed chiefly in manufacturing:—

Towns.	Birth-rate per 1,000.	Death-rate per 1,000.	Average Death-rate for 10 years, 1888—97.	Zymotic Death-rate per 1,000.	Infantile Mortality.
St. Helens	38·51	21·0	21·91	4·22	181
Wigan	37·16	20·99	22·69	3·11	175
Warrington	36·7	19·5	21·8	2·8	175
Bury	25·29	18·75	22·01	2·89	177
Ashton-u.-Lyne	26·6	20·9	22·4	3·4	228
Bolton	32·8	21·9	22·2	4·16	184
Huddersfield	23·39	16·48	18·10	1·47	132
Halifax	22·4	16·3	19·1	1·09	140
Stockport	30·9	21·5	23·4	4·8	214
Blackburn	27·5	19·2	21·9	2·0	208
Rochdale	**25·6**	**17·8**	**18·90**	**1·80**	**139**

Smallpox

There have been no deaths from Smallpox, and no case of illness from that cause has been notified to me as occurring within the Borough. As 1350 cases of Smallpox have occurred in Middlesborough since the commencement of 1898, and as one which caught the infection there died in the adjoining Borough, I cannot do better than repeat my warning of last year, and, therefore reprint the following abstract from my last year's Annual Report:—

> "As regards Vaccination, in my last year's report
> "I showed you that the number of children publicly
> "vaccinated in your Borough had rapidly declined
> "from 672 in 1891 to 25 in 1895; and that this
> "diminution was due to the Poor Law Guardians not
> "enforcing the compulsory Vaccination Acts. I regret
> "that their inaction still continues, and consider I
> "should be wanting in my duty towards you if I did
> "not again warn you of the great danger to the public
> "through having amongst them a large and rapidly-
> "increasing number of unvaccinated persons liable to

"be attacked by Smallpox, should they at any time "be exposed to its infection. Since acquiring the "present Infectious Diseases Hospital, you have been "able, by the rapid removal and complete isolation of "every notified case, to check any serious extension of "the disease. Should, however, at any time, a few "undetected cases occur amongst the unprotected population, the result would be disastrous. Seeing that "efficient Vaccination is the only scientific method "hitherto discovered of preventing this dire disease, I "hope our Poor Law Guardians will fulfil the duties "imposed upon them by Act of Parliament."

The number of Public Vaccinations in the Borough during the year under notice was only 11.

Measles

There were 68 deaths from Measles, or 44 more than the mean average for the ten preceding years. This is one of those diseases which it is most difficult to detect and prevent, owing to the infection being greatest before the disease can be properly recognised. It is also one of those diseases parents think it necessary their children should have, and therefore do not take proper precautions to prevent its spread. The outbreak of the epidemic commenced in April, and increased in severity till August, when it gradually declined. Had the epidemic prevailed during the more inclement months of the year, the number of deaths from this cause would have been very much higher. The death-rate from this cause was 0·93; England and Wales, 0·40; thirty-three great towns, 0·55; sixty-seven other large towns, 0·43; and the remainder of the country, 0·29.

Scarlet Fever

There were 97 cases of Scarlet Fever notified during the year, being 274 less than the preceding year. Amongst these there were only seven deaths or a case mortality of 7·2 per cent. The notifications were more numerous during the first quarter, and gradually declined until the last quarter when they numbered only 19. Our death-rate from this cause was 0·09, or lower than the Rural districts of England and Wales. Of the cases notified 46 were removed to Hospital, or 47½ per cent of the total cases. Last year it was 44 per cent, and the year before, 36. This increase though small is very satisfactory, as showing the increase in popularity of the Hospital. Of the 46 cases removed to Hospital, none died, whilst of the remaining 51 which were treated at their own homes seven resulted in death.

Whooping Cough

Whooping Cough is not a notifiable disease but has been credited with 18 deaths or 34 less than the preceding year. This disease although the mortality from it shows it to be a dangerous Infectious Disease is very little under the control of a Sanitary Authority owing to the impossibility of complete isolation. It—like Measles—owes its great fatality to the circumstance that it is little feared and therefore through ignorance and carelessness no attempt is made at isolation, medication is seldom resorted to and exposure to climatic changes is never guarded against. The death-rate from this cause was 0·24, whilst the average for other large towns is 0·43.

Fever

This includes Typhus, Typhoid, Simple, and other ill-defined forms of Continued Fever. The total number of deaths occurring under the above heading was 6, five of which were due to Typhoid Fever. There were 29 cases of Typhoid Fever reported during the past year, 6 of which were removed for treatment to Marland Hospital. The death-rate from the above cause was 0·08, whilst the same rate for England and Wales was exactly double 0·16; thirty-three great towns 0·18; sixty-seven other large towns 0·16; the remainder of the country 0·14. The rapid decline in this fever is best shown by giving you the average total annual deaths in periods of five years since the passing of the Public Health Act, 1875, the only period of which I have any reliable statistics.

1875-79	42
1880-84	24
1885-89	11
1890-94	10
And the last three years	8

Of the five deaths from Enteric Fever, three occurred in Castleton Further, one in Castleton Nearer, and one in Wuerdle and Wardle.

Diarrhœa

27 Deaths were due to Diarrhœa, or 8 more than the mean average for the years 1886-96; but 8 less than the average 1875-85; 20 of these occurred during the summer quarter, and were no doubt due to the high temperature which prevailed during the latter half of July and the first half of August following so rapidly on the very low temperature in the early part of July.

Diphtheria and Diphtheritic Croup

There were only 7 Deaths from Diphtheria recorded during the year, or a rate of 0·09 per 1000, and 2 less than the preceding year. The number of cases notified was 16, or 20 less than the preceding year, and is most satisfactory in view of the tendency which has been observed in large towns during the last few years for the disease to show an increase in prevalence. 2 cases were removed to Hospital both of which recovered. Contrasting the above death-rate with different districts we find that for England and Wales it was 0·24; the thirty-three great towns 0·31; the sixty-seven other large towns 0·24; and for the remainder of England and Wales 0·19. I purpose distributing in the Borough, leaflets on this disease—also Diarrhœa—showing the chief causes and best means of preventing their occurrence.

Influenza

Influenza was the direct cause of 22 deaths, as compared with 15 deaths during the year 1896, and 33 in 1895. Ever since 1890 it has shown a tendency to recur amongst us year by year, usually during the winter and spring months. I feel confident that indirectly it was responsible for a large number of deaths registered as due to other causes such as acute affections of the chest, old age, and many other nervous affections. The disease was most prevalent in the central zone of the Borough, and the mortality was greatest amongst the aged.

Erysipelas

There were 43 cases of Erysipelas notified at the Health Office and no deaths were recorded during the year.

Puerperal Fever

There were 7 cases of this disease notified, of which 4 died. One midwife was suspended for 3 months owing to the prevalence of Puerperal Fever amongst the cases on which she was in attendance.

Respiratory Diseases

There were 386 deaths from Respiratory diseases, or 12 less than the preceding year. Of these 122 were referred to Pulmonary Consumption, and the remainder to other Respiratory affections. The deaths from Pulmonary Consumpton were 27 more than the preceding year, and the other Respiratory affections were 39 less. Of the deaths from lung affections other than Phthisis 54 were under the age of one, or 20 per cent of total deaths from this cause; 38 were of children between one and five or 14 per cent; and 79 of persons over the age of sixty, or 30 per cent. The death-rate from Respiratory affections other than Phthisis at all ages was 3·6; last year it was 4·15; and the year preceding that 4·4; the diminished death-rate from this cause is more apparent when you consider the great prevalence of Measles. The highest rate was in Wardleworth, and the lowest in Spotland Further.

Phthisis

There were 122 deaths from Phthisis equal to an annual rate of 1·65 per 1000 of the estimated population, as against 1·3 and 1·9 in the two preceding years. The district of Wuerdle and Wardle had the highest rate 2·16, and Castleton Further 1·90, whilst the lowest was in Spotland Nearer. Last year I drew your attention to unpaved and badly sewered streets, predisposing to Phthisis, Rheumatism, and other allied affections. I am pleased to say that some attention has been given to these questions but there is still much room for further improvement.

Offensive Trades

The following offensive trades are carried on in Rochdale, viz.:–Tripe-boiling, Soap-boiling, Tallow-melting, Candle-making, Gut-scraping, Fellmonging, Fish-frying, and Knackeries. These trades were not the subject of many complaints and on the whole were fairly well carried out. One person was found to have commenced the business of tripe-boiling without having obtained your consent but discontinued the same on his attention being called to the requirements of the Law. Nuisances were found to exist at 3 of the tripe-boiling places owing to defects in the floor, but in each case these were remedied upon the owners' attention being called to them. Complaints were lodged of a nuisance from tar-boiling. The inspector frequently visited the place but on no occasion could detect any nuisance. The knacker's yard was also the cause of complaint, and I think that under the circumstances it may be necessary for you to draw up such rules and regulations as will strengthen the hands of my Inspectors in dealing with these offensive trades. The following visits were made by the Inspector: Tripe-boiling works 45; Fish-frying shops 31; Gut-scraping places 6.

Uncertified Deaths

There were 15 deaths uncertified to as to their cause, either by a Medical Practioner or by the Coroner. These amounted to 1·2 per cent. of the total deaths, whilst the same rate for England and Wales was 2·0.

Inquests

There were 82 Inquests or Inquiries held by the Coroner during the year or 6·6 per cent of the total deaths, whilst the same rate for England and Wales was 6·3.

Hospital

On the First of January, 1897, there were 9 cases in Marland Hospital, Scarlet Fever 6, and Typhoid Fever 3; during the year there were admitted 63 fresh cases, of which 49 were Scarlet Fever; 11 Typhoid Fever; and 3 Diphtheria. Of these, two died, one of Typhoid and one of Pneumonia. The case of Pneumonia was admitted as Typhoid Fever. On the 31st of December there still remained in the Hospital 5 cases; 3 Scarlet Fever; and 2 Typhoid Fever. During the year the old brick building called the School House has been removed; the usual measures of cleansing, whitewashing, painting, &c., were carried out. For the benefit and comfort of the patients in Hospital, I might suggest the advisability of laying out and planting some trees and shrubs in the grounds surrounding the Hospital.

Smoke Observations

During the year 205 observations each of one hour's duration were made of smoke issuing from factory chimneys and reported to you. This resulted in five notices and four letters of warning being sent to the owners of chimneys from which dense black smoke had been emitted. No prosecutions were instituted against any of them.

Cellar Dwellings

82 visits were paid to Cellar Dwellings, resulting in 9 uninhabited cellars being closed as unfit for human habitation.

Factory and Workshops Act

During the year under observation the Factory and Workshop Acts have been more fully carried out. A thorough examination of 68 Workshops and 73 Bakehouses has been made, they have been thoroughly examined and the following detailed information placed upon the books; cubic space, number of persons employed, ventilation, drainage, light, closet accommodation and all other structural or sanitary defects noted. Many defects were found, all of which were remedied, and one Workshop was closed as totally unfit for the purpose for which it was intended. Once, however, this thorough examination has been made, and registration effected, future inspection will be comparatively easy.

Food and Drugs Act

Under the Food and Drugs Act, 130 samples of food stuffs were examined with the result that 117 were found genuine, and 13 adulterated, three dealers were fined and ten were cautioned by the Town Clerk. A more detailed account of the samples taken will be found on referring to Table XV. In addition to the above, 18 samples of water have been taken and submitted for analysis, three of which were found to be polluted with lead, and three others with sewage and vegetable substances.

18 samples of food were taken from the Hospital, all of which were found on analysis to be genuine and of good quality. I would suggest the necessity of your Committee carrying out the duties entailed under the Dairies, Cow-sheds, and Milkshops order, of 1885, and the Dairies, Cowsheds and Milkshops Amending Order, of 1886, duties which are now delegated to the Watch Committee.

Slaughter Houses

The Slaughter Houses were regularly visited. A Sub-Committee was appointed during the early part of the year to visit them. They did so, and found that in many cases they were very defective in construction and situation. Since their visit great improvements have been made, but many more are required. I should advise the erection of a Public Abattoir, or, failing that, the necessity of framing more stringent Slaughter House Bye-Laws.

The amount of meat and other food-stuff which was seized or given up, on account of its being in a diseased condition, was:—Beef, 3,400-lbs.; Livers, 6; Mutton, 71-lbs.; Geese, 2; Rabbits, 2; Green Peas, 12 pecks; Apples, 40-lbs. Summonses were issued in one case for exposing diseased meat for sale, and a fine of £20 and costs was imposed.

Sanitary Work

The Sanitary Work of the Borough was carefully carried out according to your instructions. The nuisances dealt with by the Inspectors, and the number of houses visited, will show that a great deal of valuable work has been accomplished. House to house visitation resulted in the discovery of a great many sanitary defects, such as defective drain-pipes, closets, ashpits, and ventilation, overcrowding, need of whitewashing, &c. In every case where necessity arose the occupier or owner had notice served upon him, requiring him to remedy such defects, and these notices were in most cases complied with, so that no legal proceedings were necessary. The disinfecting machine was of great service: 3,271 articles of clothing, bedding, &c., were disinfected by it. 538 visits were paid to houses were cases of Zymotic disease existed; sanitary defects, where present, were reported on and remedied; written instructions as to the measures necessary to check the spread of infection were distributed and disinfectants were supplied. After recovery, death, or removal to Hospital 157 houses were thoroughly fumigated and cleansed.

The question of closet accommodation for Factories is a matter which I hope will receive due consideration in the coming year.

I would also point out the necessity of adopting the third part of the Public Health Amendment Act, 1890.

In concluding my report, I must again thank my staff of officers for their valuable assistance, and you, Gentlemen, for your kindness and courtesy towards me.

I am, Gentlemen,

Yours obediently,

J. HENRY,

Medical Officer of Health.

Town Hall, Rochdale.

March 25th, 1898.

APPENDIX.

TABLE I.

Yearly Return of Births and Deaths in the Borough of Rochdale and Registration Districts,

For the Year ending 31st December, 1897.

	POPULATION.	Acreage.	Density per Acre.	BIRTHS.	DEATHS.				Rate per 1,000 of the Population.				
					Total.	From 7 principal Zymotic diseases	From Respiratory diseases	From Phthisis.	Births.	Deaths.	From 7 principal Zymotic diseases.	From Respiratory diseases.	From Phthisis.
The Borough ...	**73,605**	**4,180**	**17·6**	**1,884**	**1,232**	**133**	**266**	**122**	**25·6**	**16·7**	**1·80**	**3·61**	**1·65**
DISTRICTS.													
Castleton Nearer	19,127	493	38·8	459	308	33	59	33	24·0	16·1	1·72	3·08	1·72
Castleton Further	13,638	1,068	12·8	387	226	31	50	26	28·4	16·5	2·27	3·67	1·90
Spotland Nearer ...	11,822	751	15·7	261	199	22	46	15	22·0	16·8	1·86	3·97	1·27
Spotland Further	3,261	652	5·0	62	43	4	5	5	19·0	13·2	1·22	1·53	1·53
Wardleworth	19,887	766	26·0	560	367	33	85	31	28·2	18·9	1·66	4·32	1·55
Wuerdle & Wardle	5,548	245	22·6	152	87	10	20	12	27·4	15·7	1·80	3·60	2·16
Butterworth.........	322	205	1·6	3	2	0	0	0	9·3	6·2	0	0	0

TABLE II.

Deaths from Seven Principal Zymotic Diseases for 1897, *and the Twenty-two previous Years.*

	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	Death Rate per 1000 living.
Smallpox	25	1	0	0	0	0	51	40	0	0	0	0	3	1	0	0	0	0	5	1	0	0	0	0·00
Measles	8	107	13	67	24	43	3	42	8	35	1	39	8	26	20	6	16	3	76	4	35	43	68	0·93
Scarlet Fever	111	45	28	107	65	42	29	31	20	15	9	18	8	19	2	18	8	2	11	29	45	24	7	0·09
Whooping Cough... ...	33	24	39	16	27	33	36	22	11	28	19	44	12	15	38	17	27	24	49	10	19	52	18	0·24
Fever	47	50	40	43	31	39	14	28	16	25	12	11	16	10	7	13	9	9	31	15	15	7	6	0·08
Diarrhœa	68	51	29	51	25	56	20	17	26	27	15	12	25	27	25	10	14	8	29	19	25	18	27	0·36
Diphtheria	6	8	5	8	5	8	2	4	3	3	0	4	3	6	3	4	1	5	17	48	27	9	7	0·09
Totals	298	286	154	292	177	221	155	184	84	133	56	128	75	104	95	68	75	51	218	126	166	153	133	1·81

TABLE III.

Table shewing the Mortality from certain classes of Diseases, proportion to Population, and to 1000 *Deaths.*

	Total.	Deaths per 1,000 of Population.	Proportion of Deaths to 1,000 Deaths.
1. Seven principal Zymotic Diseases	133	1·81	116
2. Respiratory Diseases (*other than Phthisis*)	266	3·61	216
3. Tubercular Diseases	141	1·91	114
4. Wasting Diseases of Infants	70	0·95	57
5. Convulsive Diseases of Infants	77	1·05	62
6. Sudden Deaths among Children	28	0·38	23

No. 1. Includes Smallpox, Measles, Scarlet Fever, other Fevers, Diphtheria, Whooping Cough and Diarrhœa.
„ 2. „ Bronchitis, Pneumonia, Asthma, Pleurisy, &c.
„ 3. „ Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus.
No. 4. Includes Marasmus, Atrophy, Debility, and Premature Birth.
„ 5. „ Infantile Meningitis, Convulsions and Teething.
„ 6. Inquests and Uncertified Deaths amongst Children.

TABLE IV.

Table shewing the Annual Birth Rate, Rate of Mortality among Children under 1 year, under 5 years; and in persons over 60 years, for the present and 24 previous years.

Year.	Birth-Rate per 1,000 of Population.	Deaths in Children under 1 year to percentage of Total Deaths.	Deaths in Children under 1 year to 1,000 Births.	Deaths in Children under 5 years to percentage of Total Deaths.	Deaths in persons over 60 years to percentage of Total Deaths.
1897	25·6	21	139	35	26
1896	25·5	20	152	35	25
1895	23·9	19	175	33	27
1894	23·7	18	121	31	27
1893	24·8	20	164	35	26
1892	24·6	20	146	31	26
1891	25·6	18	151	31	27
1890	24·1	19	150	31	25
1889	24·3	20	145	33	25
1888	24·8	23	165	38	22
1887	25·0	18	132	32	27
1886	27·0	23	162	41	22
1885	26·9	19	121	31	27
1884	27·4	23	175	40	21
1883	28·0	20	141	34	20
1882	29·6	21	140	37	20
1881	30·2	21	138	36	21
1880	29·8	23	163	46	18
1879	31·4	23	148	43	19
1878	34·1	25	176	47	15
1877	34·6	23	137	40	19
1876	35·4	26	166	46	16
1875		22		40	19
1874		25		46	17
1873		25		40	21

The figures for the years 1877-8-9 are calculated on a higher estimate of the population than in 1880. The year 1876 has been estimated very nearly about the same as 1880.

TABLE V.

Summary of Sanitary Work accomplished during the year 1897.

Total No. of	
Rooms disinfected	139
Articles of Bedding disinfected	3164
Applications for Lime and Brushes	1181
Complaints received	242
Letters written	660
Notices for Abatement of Nuisances	203
Smoke Observations	205
Carcases surrendered and destroyed	4
Seizures of Meat destroyed	6
„ Fish „	1
„ Fruit „	3
„ Fowls, &c. „	2
Visits to Works in progress	426
„ Vans and Shows	30
„ Owners and Occupiers, for interviews	926
„ Fish-frying and Chip-potatoe Shops	47
„ Borrowers keeping Lime Brushes over date	57
„ Houses containing cases of Infectious Diseases	668
Inspections of Bakehouses	193
„ Workshops	62
„ Slaughter-houses	1411
„ Offensive Trades	54
„ Canal Boats	72
„ Cellar Dwellings	82
„ Markets	Regularly.

TABLE VI.

Cases of Infectious Diseases Visited, and number of Visits paid to Infected Houses.

ZYMOTIC DISEASES.		DISTRICTS WHERE VISITED.							Bedding &c., from Castleton, Middleton, or Dearnley.
	Total.	Castleton Nearer.	Castleton Further.	Spotland Nearer.	Spotland Further.	Wardle-worth.	Wuerdle and Wardle.	Butter-worth.	
Smallpox	...	...	...	...	...	...	...	...	...
Scarlet Fever	97	26	25	19	5	18	4	...	...
Erysipelas	43	7	15	5	2	7	7	...	...
Diphtheria	16	8	2	1	1	4	...	...	...
English Cholera	1	...	...	...	1	...	...	...	...
Other Fevers (Puerperal, Continued, &c.)	36	4	8	6	2	7	9	...	...
Houses Disinfected	157	31	66	24	5	25	5	1	...
Articles of Bedding, &c., Disinfected	3271	1023	821	560	169	474	122	14	88
Visits made to Houses where cases of Zymotic Disease existed	538	137	44	75	24	168	84	6	...

TABLE VII.

A TABULATED SUMMARY OF METEOROLOGICAL NOTES FOR THE YEAR 1897.

Months.	Barometer reduced to 32° and Sea Level.						Temperature.									Rainfall.				Mean degree of humidity, Saturation being 100.	Direction of Wind and No. of Days.								
	Mean	Highest.		Lowest.		Range.	Mean.	Highest.		Lowest.		Mean of Max. Thermometer.	Mean of Min. Thermometer.	Lowest on Grass.		Total.	Greatest Fall.		No. of Days on which Rain fell.		N	NE	E	SE	S	SW	W	NW	Calm.
		In In.	Dte	In In.	Dte			°F	Dte	°F	Dte			°F	Date.		In In.	Date.											
Jan. ……	29·944	30·495	2	29·376	30	1·119	Thermometers away for Repairs.							18·2	24	2·321	·695	4	19	Hygrometer away for repairs.	1	16	1	1	1	1	6	1	3
Feb. ……	30·092	30·628	16	29·297	2	1·331		Do.			Do.			25·5	28	2·891	·400	4	19		2	6	…	4	1	7	5	1	2
March …	29·586	30·160	21	28·663	3	1·497		Do.			Do.			25·0	30	4·476	·570	26	26		…	4	…	4	5	9	5	3	1
April ……	29·857	30·247	22	29·186	1	1·061	42·4	62·2	29	30·0	5	49·9	37·3	26·2	5	3·189	·697	17	16	81·2	…	7	6	2	3	3	4	4	1
May ……	29·941	30·487	16	29·100	20	1·387	48·7	67 5	18	32·0	11	56·8	40·3	28·0	11 &12	2·181	·670	28	16	82·4	2	10	1	…	…	5	7	5	1
June ……	29·998	30·245	11	29·290	18	·955	55·7	81·0	14	40·2	17	65·3	50·5	37·0	17	4·545	·790	17	16	86·5	…	6	5	…	3	7	6	3	…
July ……	29·997	30·365	11	29·620	20	·745	60·6	78·7	16	45·7	7	69·2	52·2	41·7	8	1·621	·457	25	14	77·4	1	5	4	…	…	2	12	7	…
Aug. ……	29·763	30·197	3	29·375	30	·822	60·7	85·7	6	46·2	27	69·1	52 3	41·0	27	7·160	3 237	5	25	78·7	..	2	2	2	2	12	10	1	…
Sep. ……	29·950	30·529	13	29·182	2	1·347	52·6	66·7	14	34·2	19	59·3	45·6	29·0	19	4·737	·740	4	16	83 6	1	4	2	…	…	7	6	6	4
Oct… ……	30·150	30·596	21	29·354	15	1·242	49·4	65·0	29	35·0	12	56·4	43·4	28·7	12	2·847	·785	14	14	87·3	1	5	7	…	2	7	3	5	1
Nov. ……	30·169	30·733	20	29·457	13	1·276	44·4	57·0	14	30·7	30	47·1	40·7	25·0	30	5·809	1·357	30	18	91·7	2	7	5	…	1	7	6	1	1
Dec. ……	29·810	30·665	22	29·007	30	1·658	39·7	52·7	30	25·7	26	45·4	34·7	18·7	25	6·453	1·210	16	22	91·1	1	1	5	2	…	14	3	3	2
Whole yr.	29·938	30·733	Nov 20	28·663	Mar 3	2·070	50·5	85·7	Aug 6	25·7	Dec 6	57·6	44·1	18·2	Jan 24	48·230	3·237	Aug. 5	221	84·4	11	73	38	15	18	81	73	40	16

These Observations are taken daily at 9 a.m.

Position of Barometer, 472 feet above mean Sea level.

TABLE VIII.

Year.	Total.			Rate per 1,000 of Population.		
	Births.	Deaths.	From 7 principal Zymotic Diseases.	Births.	Deaths.	Seven Zymotics.
1897	1,884	1,232	133	25·6	16·7	1·80
1896	1,858	1,391	153	25·5	19·07	2·09
1895	1,735	1,557	166	23·9	21·42	2·28
1894	1,716	1,176	126	23·7	16·26	1·74
1893	1,792	1,453	218	24·8	20·09	3·01
1892	1,768	1,307	51	24·6	18·18	0·70
1891	1,833	1,527	75	25·6	21·4	1·05
1890	1,719	1,378	68	24·20	19·37	0·95
1889	1,794	1,289	95	25·30	18·12	1·34
1888	1,816	1,319	104	25·71	18·70	1·48
1887	1,819	1,329	75	25·80	18·83	1·08
1886	1,951	1,380	128	27·29	19·67	1·87
1885	1,924	1,194	56	27·49	16·98	0·81
1884	1,887	1,405	133	27·20	20·18	1·92
1883	1,938	1,342	84	27·86	19·31	1·23
1882	2,036	1,393	184	29·56	20·12	2·70
1881	2,079	1,371	155	30·20	19·90	2·20
1880	2,055	1,437	221	29·91	20·89	3·30
1879	2,261	1,445	177	33·12	21·15	2·59
1878	2,426	1,721	292	35·84	25·43	4·3
1877	2,426	1,426	154	36·16	21·26	2·29
1876	2,432	1,527	253	36·60	23·00	3·80
1875	...	1,619	283	...	24·60	4·34
1874	...	1,587	253	...	24·34	3·88
1873	...	1,365	118	...	21·14	1·83
1872	...	972	87	...	...	...

In the year 1872 the Borough was extended by the addition of about 20,000 inhabitants.

TABLE IX.

Notifications of Infectious Diseases from January 1st to December 31st, 1897.

MONTH.	English Cholera.	FEVERS.			Diphtheria.	Erysipelas.	TOTALS.
		Scarlet.	Typhoid.	Puerperal.			
January	...	13	4	3	1	6	27
February	...	8	1	...	...	3	12
March	...	13	1	1	4	1	20
April	...	3	...	...	2	2	7
May	...	15	1	...	1	2	19
June	...	5	2	...	...	4	11
July	...	9	2	...	...	4	15
August	1	9	6	...	3	4	23
September	...	3	4	2	2	5	16
October	...	12	3	...	2	4	21
November	...	4	3	1	...	3	11
December	...	3	2	...	1	5	11
TOTALS	1	97	29	7	16	43	193

POPULATION 73,605.

TABLE X.

ACREAGE 4,180.

Deaths registered in the Borough of Rochdale during the year ending December 31st, 1897.

CAUSES OF DEATH	SEX TOTAL		AGE BELOW.																Castleton Nearer.	Castleton Further.	Spotland Nearer.	Spotland Further.	Wardleworth.	Wuerdle and Wardle.	Butterworth.	TOTAL.
	Males.	Femls.	—1		—5		—15		—25		—35		—45		—60		Over 60									
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.								
CLASS 1.—Measles	41	27	11	7	29	20	1	...	...	...	...	...	...	...	...	...	...	...	20	14	10	2	17	5	...	68
Scarlatina	3	4	...	...	2	3	1	1	...	...	...	...	...	...	...	...	...	...	...	5	1	...	1	...	...	7
Whooping Cough	8	10	3	2	3	8	2	..	...	...	...	...	...	...	...	...	...	...	3	1	4	...	8	2	...	18
Croup	1	1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	2
Diarrhœa...	17	10	14	6	...	4	...	...	...	...	...	...	...	...	2	...	1	...	5	8	5	2	6	1	...	27
Dysentery	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	1
Influenza	11	11	1	...	...	...	...	1	...	...	...	3	2	1	5	4	3	2	5	3	4	...	8	2	...	22
Enteric	2	3	...	...	...	...	...	2	1	1	1	...	...	...	...	...	...	...	1	3	...	...	...	1	...	5
Other Fevers	...	1	...	1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Syphilis	...	3	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	3
Diphtheria	4	3	1	...	2	3	...	...	...	...	...	...	...	...	1	...	...	...	4	...	1	...	1	1	...	7
Rheumatic Fever	3	3	...	...	1	...	2	...	...	...	...	2	...	1	...	...	...	...	2	...	3	...	...	1	...	6
Aphtha	1	2	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	3
Alcoholism	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	1	...	...	...	...	2
CLASS II.—Addison's Disease ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	1
Mastitis	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Goitre Exophthalmic ...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1
Cancer	16	27	...	...	...	...	...	...	2	...	...	1	2	3	6	8	6	15	11	7	9	4	10	2	...	43
Gangrene	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	...	1	...	..	...	...	2
Rheumatism	1	4	...	...	...	...	...	...	...	...	...	...	...	...	1	3	...	1	3	1	...	...	1	...	...	5
Diabetes	2	2	...	...	...	...	...	...	...	...	...	1	2	...	...	1	...	...	1	1	...	...	..	2	...	4
Anœmia	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Pyœmia	1	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	2
Rachitis	1	2	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	1	...	...	3
CLASS III.—Scrofula	4	3	...	...	...	...	3	...	...	1	1	...	...	...	...	1	...	1	1	...	1	...	4	1	...	7
Tabes Mesenterica ...	3	6	1	3	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	6	1	...	9
Phthisis	65	57	...	...	3	...	2	5	10	13	15	15	14	12	15	10	6	2	33	26	15	5	31	12	...	122
Hydrocephalus	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
CLASS IV.—Inflammation of Brain ...	15	15	2	5	3	5	5	4	1	...	1	...	...	...	1	...	2	1	7	2	6	2	10	3	...	30
Apoplexy	18	30	...	...	...	...	...	...	...	...	...	...	1	3	7	10	10	17	15	5	6	3	16	3	...	48
Paralysis	7	1	1	...	...	...	...	...	...	...	...	...	1	...	2	...	3	1	1	1	2	2	...	2	...	8
Epilepsy	...	3	...	...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	2	1	...	...	...	...	...	3
Convulsions	26	11	22	10	3	3	...	1	...	...	...	...	1	...	...	...	...	...	12	7	9	2	9	1	...	40
Disease of Brain	4	5	...	...	...	...	...	...	...	...	...	1	...	...	3	3	1	1	3	1	...	...	4	1	...	9
Disease of Spine	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	..	...	1	...	...	...	2
CLASS V.—Disease of Heart	45	52	1	...	1	...	2	3	1	3	1	3	9	5	12	10	18	28	27	16	16	4	26	8	...	97
Syncope	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	1	...	...	...	...	...	2
Aneurism	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	3	...	...	...	...	...	...	3

CLASS VI.—Bronchitis	68	80	19	14	10	12	...	1	2	...	...	...	3	4	15	13	19	36	31	27	28	2	48	12	...	148
Pneumonia	56	53	12	9	7	7	4	4	3	2	3	1	7	4	11	12	9	14	26	21	17	3	34	8	...	109
Asthma	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1	1	...	...	...	...	...	2
Disease of Lungs	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
Laryngitis	...	2	...	...	..	1	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	2
Pleurisy	2	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	...	2
CLASS VII.—Inflammation of Stomach...	2	5	1	2	...	...	...	...	...	...	...	1	...	1	1	...	...	1	1	...	1	2	3	...	...	7
Inflammation of Bowels ...	6	5	3	3	1	...	1	...	...	...	...	...	...	1	...	...	1	1	2	1	1	...	7	...	...	11
Peritonitis	...	3	...	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	1	...	...	...	1	1	...	3
Disease of Stomach, &c. ...	1	2	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1	...	...	...	1	1	...	3
Disease of Liver	3	4	...	...	...	...	...	...	...	...	...	...	1	...	2	2	...	2	4	2	...	...	1	...	...	7
Hernia	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	1	...	1	...	...	1	...	3
Intestinal Obstruction ...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	...	2	...	...	2	...	...	4
CLASS VIII.—Disease of Kidneys, &c. ...	16	13	...	1	1	1	...	1	1	...	1	...	1	4	8	3	4	3	4	7	6	1	10	1	...	29
Disease of Bladder ...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	1	1	1	1	...	...	...	4
CLASS IX.—Pelvic Cellulites	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	..	...	...	...	1	..	...	1
Childbirth	...	13	...	...	..	...	...	...	...	1	...	8	...	4	...	...	...	...	3	2	2	1	4	1	...	13
Disease of Uterus	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	1	...	...	2
Ovarian Disease	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	1	...	...	1	...	..	...	...	1
Puerperal Fever	...	4	...	...	...	...	...	...	...	...	...	2	...	2	...	...	...	...	1	...	2	...	1	...	...	4
CLASS X.—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CLASS XI.—Debility	15	10	15	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	8	1	....	6	2	...	25
Marasmus	8	10	7	9	1	1	...	...	...	...	...	...	...	...	...	...	...	...	3	5	5	...	5	..	...	18
CLASS XII.—Premature Birth	12	15	12	15	...	...	...	...	...	...	...	...	...	...	..	...	...	...	9	5	3	...	9	1	...	27
Malformation	3	2	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	2	...	...	5
Teething	12	10	5	7	7	3	...	...	...	...	...	...	...	...	...	...	...	...	8	3	2	1	8	...	...	22
CLASS XIII.—Old Age	19	47	...	...	...	...	...	...	...	...	...	...	...	...	..	...	19	47	12	20	13	1	15	3	2	66
CLASS XIV.—Inquests	47	35	5	3	5	7	2	2	1	1	2	...	8	4	10	6	14	12	17	11	14	1	33	6	...	82
CLASS XV.—Causes not certified ...	11	4	5	1	2	...	...	...	...	...	...	...	...	...	1	3	3	...	2	4	2	2	4	1	...	15
TOTALS	597	635	147	116	86	86	26	26	22	22	25	41	53	53	107	99	131	192	308	226	199	43	367	87	2	1232
I.—Zymotic Diseases	93	79	31	20	38	40	6	4	1	1	1	5	3	2	8	5	5	2	43	34	32	4	47	12	...	172
II.—Diseases of Uncertain or Variable Seat	25	38	2	2	1	2	...	...	2	...	...	2	4	4	8	12	8	16	20	10	10	4	14	5	...	63
III.—Tubercular Diseases	73	66	1	3	6	3	5	5	10	14	16	15	14	12	15	11	6	3	34	26	18	5	42	14	...	139
IV.—Diseases of Brain, &c.	72	68	25	15	6	8	5	5	1	...	1	3	3	4	13	13	18	20	41	17	23	10	39	10	...	140
V.—Diseases of the Heart and Blood Vessels	46	56	1	...	1	...	2	3	1	3	1	3	9	5	12	12	19	30	31	17	16	4	26	8	...	102
VI.—Diseases of the Lungs	128	136	31	23	17	21	5	6	5	2	3	1	10	8	28	25	29	50	59	50	45	5	85	20	...	264
VII.—Diseases of the Stomach, Liver, &c. ...	13	25	4	5	1	...	1	...	...	...	...	2	1	3	4	8	2	7	10	5	3	2	15	3	...	38
VIII.—Diseases of the Kidneys	20	13	...	1	1	1	...	1	1	...	1	...	1	4	8	3	8	3	5	8	7	2	10	1	...	33
IX.—Childbirth, Diseases of the Uterus, &c.	...	21	...	...	...	...	...	...	...	1	...	10	...	7	...	1	...	2	5	2	5	1	7	1	...	21
X.—Diseases of the Skin, &c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
XI.—Debility, Atrophy, and Marasmus ...	23	20	22	19	1	1	...	...	...	...	...	...	...	..	...	...	...	...	11	13	6	...	11	2	...	43
XII.—Developmental Diseases	27	27	20	24	7	3	...	...	...	...	...	...	...	...	...	...	...	...	18	9	5	2	19	1	...	54
XIII.—Old Age	19	47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19	47	12	20	13	1	15	3	2	66
XIV.—Inquests	47	35	5	3	5	7	2	2	1	1	2	...	8	4	10	6	14	12	17	11	14	1	33	6	...	82
XV.—Causes not certified	11	4	5	1	2	...	...	...	...	...	...	...	...	...	1	3	3	...	2	4	2	2	4	1	...	15

TABLE XI.

Shewing Number of Cases admitted to the Hospital during each month of 1897.

1897.	Scarlet Fever.				Enteric Fever.				Small Pox.				Other Diseases.				Total Admissions.			
MONTHS.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.	M.	F.	Deaths.	Total.
January	2	3	...	5	...	...	...	...	...	...	...	...	...	...	...	...	2	3	...	5
February	2	1	...	3	1	...	...	1	...	...	...	...	...	...	...	...	3	1	...	4
March...	2	3	...	5	...	...	...	...	...	...	...	...	1	1	1		3	4	1	7
April	2	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	4
May	...	4	...	4	...	2	...	2	...	...	...	...	...	...	...	...	...	6	...	6
June	1	2	...	3	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...	3
July	...	5	...	5	1	...	...	1	...	...	...	...	...	...	...	...	1	5	...	6
August	2	3	...	5	...	1	...	1	...	...	...	...	...	...	...	...	2	4	...	6
September	2	2	...	4	...	1	...	1	...	...	...	...	...	1	...	1	2	4	...	6
October	2	2	...	4	1	...	1	1	...	...	...	...	1	...	...	1	4	2	1	6
November	2	2	...	4	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	4
December	1	2	...	3	2	...	...	2	...	...	...	...	1	...	...	1	4	2	...	6
Total for the Year	18	31	...	49	5	4	1	9	...	...	...	...	3	2	1	5	26	37	2	63

TABLE XII.

SCARLET FEVER.—Showing Admissions to Hospital, Deaths, and Percentage of Deaths, for the Year 1897.

AGES.	MALES.		FEMALES.		TOTAL.		
	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	Death-rate per cent.
Under 1 ...	...	...	...	...	...	...	...
1—5	3	...	7	...	10	...	...
5—15	14	...	18	...	32	...	...
15—25 ...	1	...	4	...	5	...	...
25—45 ...	...	...	1	...	1	...	...
Over 45 ...	...	...	1	...	1	...	...
TOTAL ...	18	0	31	0	49	0	...

TABLE XIII.

ENTERIC FEVER.—Showing Admissions to Hospital, Deaths and Percentage of Deaths for the year 1897.

AGES.	MALES.		FEMALES.		TOTAL.		
	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	Death-rate per cent.
Under 1 ...	...	...	...	...	...	...	...
1—5	...	...	...	...	...	...	...
5—15 ...	2	...	2	...	4	...	...
15—25 ...	2	...	...	...	2	...	...
25—45 ...	3	2	1	...	4	2	50
Over 45 ...	...	...	1	...	1	...	...
TOTAL ...	7	2	4	0	11	2	18

TABLE XIV.

SMALLPOX.—Showing Admissions to Hospital, Deaths, and Percentage of Deaths, for the Year 1897.

SMALLPOX—VACCINATED.

AGES.	MALES.		FEMALES.		TOTAL.		
	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	Death Rate Per cent.
Under 5 ...	...	...	...	...	...	...	...
5—15	...	...	...	...	...	...	...
15—25 ...	...	...	...	...	...	...	...
25—35 ...	...	...	...	...	...	...	...
35—45 ...	...	...	...	...	...	...	...
Over 45 ...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...

SMALLPOX—UNVACCINATED.

AGES.	MALES.		FEMALES.		TOTAL.		
	No. Admitted.	No. Died.	No. Admitted.	No. Died.	No. Admitted.	No. Died.	Death Rate Per cent.
Under 5 ...	...	...	...	...	...	...	...
5—15	...	...	...	...	...	...	...
15—25 ...	...	...	...	...	...	...	...
25—35 ...	...	...	...	...	...	...	...
35—45 ...	...	...	...	...	...	...	...
Over 45 ...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...
Total Vaccinated and Unvaccinat'd	...	...	...	...	...	...	...

TABLE XV.

Number of Samples taken by the Inspector, under the Food and Drugs Act, and results.

Description.	Purchased.	Genuine.	Adulterated.	Result.
Milk	67	63	4	3 Cautioned by Town Clerk, and 1 Fined 10/6 & costs.
Butter	10	10	...	
Soda Water	7	5	2	Cautioned by Town Clerk.
Lard	5	5	...	
Coffee	5	4	1	Fined 1/- and costs.
Irish Whiskey	5	2	3	Cautioned by Town Clerk.
Scotch „	3	2	1	Cautioned by Town Clerk.
Pepper	4	4	...	
Vinegar	3	2	1	Fined 10/6 and costs.
Bread	2	2	...	
American Cheese	2	2	...	
Olive Oil	2	2	...	
Ground Ginger	2	2	...	
Borax	2	2	...	
Cocoa Nut (dessicated)	2	2	...	
Gin	2	2	...	
Ginger Ale	1	1	...	
Salmon	1	1	...	
Tea	1	1	...	
Lobster	1	1	...	
Spirit of Nitre	1	...	1	Cautioned by Town Clerk.
Demarara Sugar	1	1	...	
Cotton-seed Oil	1	1	...	
Total	130	117	13	Three Prosecutions. Fines—22/- and costs.

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